paper # 0927



PTC	0-1449	U.S. Departme And Trademar)	ent of Commerce Office	e Patent	ATTY.DOCKET NO. ITW 14417 APPLICANT				и но. 728	529
INFO	RMA	SUPPLEM TION DISCL		TATION	Huismann FILING DATE December			GROU	12 17	2 3 5
		<del></del>	IT S	DATENT	DOCUMENTS	5, 20	03	100	P 17	
EXAM. INIT.	REF	PATENT	DATE	NAME	DOCOLERY 15	CLA	ss s	UB-	FIL	
(X		4,441,012	4/3/84	Risbeck	et al.	-				
Ca.		4,780,594	10/25/88	Rotherme.	1		$\equiv$			
C#\-		6,008,470	12/28/99	Zhang et	al.	-		-		
<u>C</u>		6,201,216	3/13/01	Mumaw.			_		<u> </u>	
							_ _		ļ	
	<u> </u>									
			FOREIG	N PATEN	r DOCUMENTS	<u> </u>				
	REF	DOCUMENT	DATE	COUNTRY	•	CLASS			RANSLAT	NOI
INIT		NUMBER	- <del> </del>	ļ	<del></del>		CLA	SS Y	ES	NO
		SU 1,743,752A1	<del>- 6/30/92</del> -	Union of	- Soviet	<del> </del>		_		╁╌
		DE4204661C1		Germany						<b>=</b>
		DE4118208A1	<del></del>	Germany						<del> -</del>
		22.220002								† -
OTTU	י פישו	DOCT IMENTIC	/Traludi	na Auth	or, Title,	Dato	Da	<b>~</b> ^^	Et c	. \
OID	EK .	l l								
	_	Direct C	ontrol_Of_	The Mater	ial Tranofr:	-The-C	ntro	lled	-Shrt	-
<del></del>		Circuiti	ng (CSC) -	Mig Proc	ess, G. Huis	mann				
<u> </u>				•					٠	•
					•					
			<del> </del>							
•										
EXAMI	NER	C, SHA		DATE CONS	SIDERED /	/21/2	- (			

I hereby certify that this correspondence is, on the date shown below, being deposited with the U.S. Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

Sept 21, 2004

George R. Corrigan

CORRIGAN LAW OFFICE

	_									3,	11666	1 05 1.
Form PTO	-1449		Departme Frademark	of Commerce Office	ce Patent	ATTY. DOCKET NO. ITW 14417		)			1AL NO /728	
						APPLICANT						
			PPLEME			Huismann	et	al	•			
INFO	RMA	TION	DISCL	OSURE C	ITATION	FILING DATE				GRO	פט	,
						December	5,	20	03	-37	<del>42 -</del> (	1725
				U.S.	PATENT	DOCUMENTS						
EXAM. INIT.	REF	PATE NUMB		DATE	NAME			CLAS		UB- Lass		LING TE
							寸	-				-
											_	
		1									1	
									Π.			
				FOREIG	N PATEN	DOCUMENTS	3					
EXAM F	REF	DOÇUM	ENT	DATE		CL	ASS	SUB-	- [	TXAN51	ATION	
INIT		NUMBE	R		i					ss [	YES	NO
CX_		JP58-	151966	9/9/83	Japan							
				<u> </u>								
				<u> </u>			<u> </u>					
OTH	ER	DOCUM	ENTS	(Includi	ng Autho	or, Title,	Da	te,	Pa	ges	, Et	c.)
EXAMIN	ER	C,	SH)	4W	DATE CONS	IDERED \	3	ı	200	o6		
through	EXAMINER: Initial if citation is in conformance with MPFP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.											

I hereby certify that this correspondence is, on the date shown below, being transmitted by facsimile to the Patent and Trademark Office Tax No. (571)-273-8300)

George R. Corrigan

~DN\*F:\WF51\DOCS\ITW\14417.70\14417.701449IDS7.wpd Wednesday, December 28, 2005 1:22PM

paper # 1101

Shoot 1 of 1. ERIAL NO.

Form Pi	°O-14	4.9	U.S. Department And Trademark	of Commerc	e Patent	ITW 14417	. 70	)		BRIAL 0/	. หอ. 7286	29
			SUPPLEME	NTAL		APPLICANT Huismann						
INF	ORM	IAT:	ON DISCLO	OSURE CI	TATION	December	5,	200		ROUP 742	2 l7 2	5
				v.s.	PATENT	DOCUMENTS			_			
EXAM. INIT.		EF	PATENT NUMBER	DATE	NAME			CLAS	S SUB- CLA		FILI DATE	
	Ī						$\exists$					
	+											
	1											
				FOREIG	N PATEN	r DOCUMENTS	S					
EXAM INIT	RE	_ 1 -	OCUMENT IUMBER	DATE	COUNTRY	·	CL		SUB- CLASS	YE	anslati ES	NO NO
	-			<del> </del>			┼╌			┿		
		十		<b>†</b>			上					
							<u>L.</u>					
OT	HER	R DO	CUMENTS	(Includi	ng Autho	or, Title,	Da	te,	Page	s,	Etc	.)
C	H		Miller® T Invision®	he Power	of Blue Phoenix 4	156 CC/CV (23						
Of				he Power ol XR <sup>m</sup> Ai		er-Cooled Gu	ns	Max	ch 20	01		
				·		•						
											······································	
EXAMI	NER		C, S4	Aw	DATE CONS	SIDERED //3	1/2	$\alpha \langle$	· · ·			
EXAMI throu this	gh	: cit	Initial if o	citation i	rmance an	ormance with d not conside icant.	MPE	P 60	9. Dra nclude	w 1	ine py of	

I hereby certify that this correspondence is,
on the date shown below, being deposited with the U.S. Postal
Service as, first class mail in an envelope addressed to:
Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

Geofge R. Corrigan
\*DN\*f:\WP51\DOCS\ITW\14417.70\14417.701449ID36.wpd Tuesday, November 01, 2005 10:57AM

Prper #0527A

CORRIGAN LAW OFFICE

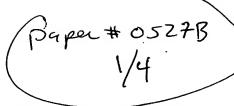
												She	et 1	of 1.
Form P	10-	1449	U.S. De And Tra		nt of Commerc Office	e Patent	ATTY. DOCKET NO. ITW 14417		0				ม No. 7286	529
			SUPP	LEME	ENTAL		APPLICANT	<u>~</u> +	1					
INF	OR	MA			OSURE CI	TATION	Huismann	eı	ar	•	C GP	OUP		
							December	5,	20	03			2-17	25
					U.S.	PATENT	DOCUMENTS							
EXAM.		REF	NUMBER		DATE	NAME			CLA	SS	SUB- CLAS		FILI	
CX	$\Box$		5,272,	313	12/21/93	Karino et	al.		-		1			
	4													
	4					ļ	<del></del>							
	+					<b> </b>	<del></del>	_		_				
					FORETO	או מאיזייאניו	DOCUMENTS	<del>,  </del>						
EXAM	RI	7 T	DOCUMENT	P	DATE	COUNTRY	DOCOMENTS	_	ASS	Cti	B-	TR:	USLAT	TON
INIT	~	3E	NUMBER		DATE	COONTRI		١٣	nas		A\$\$	YE		NO
		_					· · · · · · · · · · · · · · · · · · ·	╁		_		1		
												Ī.,		
													_	
	L					<u> I                                    </u>		<u>L</u>					•	
OT	HE	R I	DOCUMEN	TS	(Includi	ng Autho	or, Title,	Da	ıte,	P	ages	à,	Etc	.).
		ļ												
		Γ												
EXAMI	NE.	R	Cis	SHI	4w	DATE CONS	IDERED //	3	1/2	Ö	06			
EXAMI throu this	gh	ci	tation 1	f not		rmance and	ermance with I not conside .cant.		P 60	9.	Draw			

I hereby certify that this correspondence is, on the date shown below, being transmitted by facsimile to the Patent and Trademark Office (Pak No. (703)872-9306)

May 77,2001

George R. Corrigan

\*DN\*F:\WP51\DOC\$\ITW\14417.70\14417.701449IDS5.wpd Wednesday, May 25, 2005 5:01PM



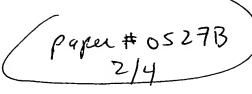
DE O SOL				4	1/4			,		14
	TO-1449	U.S. Department	nt of Commerce Office	e Patent	ATTY. DOCKET NO. ITW 14417			SERIA	t 1 o 7286	
7,,,,	ODMA	SUPPLEME		mn m T () \	APPLICANT Huismann	et al	•			
INF	ORMA	TION DISCLO			FILING DATE December	5, 20	03	GROUP	2-17	25
		_	U.S.	PATENT	DOCUMENTS					
EXAM.		PATENT NUMBER	DATE	NAME		CLA:		B- ASS	FILI	-
CX		5,272,313	12/21/93	Karino et	al.	•				
	+						<del>-   -</del>			
<u> </u>	+	<u> </u>								
							$\neg$			
			FOREIG	N PATENI	DOCUMENT	S			•	
EXAM	REF	DOCUMENT	DATE	COUNTRY		CLASS		<u> </u>	ANSLAT	ON
INIT		NUMBER					CLASS	YE	S	NO
CX+	ļ	WO01/38034	5/31/01	PCT		<b></b>	<u> </u>			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		WO 00/64620	11/2/00	PCT						
Ž.	· .	WO 00/64620	11/2/00	PCT (tra	nslated)		<u> </u>			
		WO 03/101658	112/11/03	PCT			<u> </u>			
OT	HER	DOCUMENTS	(Includi	ng Autho	or, Title,	Date,	Pag	es,	Etc	.)
							_			
						_				
EXAMI	NER	C, SHA	tw	DATE CONS	idered $l/3$	1/20	06			
EVAME	NED.	Initial if o	itation i	o in confe		MDED CO	٠٠ ٥	-		

EXAMINER: Initial if citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

I hereby certify that this correspondence is, on the date shown below, being deposited with the U.S. Postal Service as first class mail in an envelope andressed to:

Commissioner for Patents, P. O. Box 1450, Algrandria, A 22313-1450

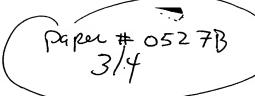
\*DN\*F:\WP51\DOCS\ITW\14417.70\14417.701449IDS4.wpd Thursday, May 19, 2005 11:23AM



<i>∞</i> }				pageen	T 0301		/			
m 6			(	• •	2/4				_	. 6
								Sh	eet 🔏	of X
FOX PT	0-1449			e Patent	ATTY. DOCKET NO.			SERI	AL NO.	
ENE		And Trademark	Office		ITW 14417	.70		10,	/728	629
		SUPPLEME	NTAL		APPLICANT Huismann	et al	_			
INFO	ORMA!	TION DISCL	OSURE CI	TATION	FILING DATE		<u> </u>	GROU	Р .	
					December	5, 20	03	374	12:17	25
			U.S.	PATENT	DOCUMENTS		3.0			
EXAM. INIT.	REF	PATENT NUMBER	DATE	NAME		CLAS		SUB- CLASS	FIL	
CX		6,472,634	10/29/02	Houston e	et al	١,			1	
CX		6,512,200	01/28/03	Norrish e	et al.		#	>		-
CA		6,568,578	5/2003	Kensrue			7			
CX		6,624,388	9/23/03	Blankensh	nip et al.			-		
CK		6,627,850	9/03	Koga et a		,		نـــ		
CA		6,831,251	12/14/04	Artelmair	et al.	ر	$\pm$			
			FOREIG	N PATEN	DOCUMENTS	3				
EXAM	REF	DOCUMENT	DATE	COUNTRY		CLASS	SUB	- Т	RANSLAT	ION
INIT		NUMBER		ļ	·	CL		SS Y	ES	NO
CA		DE3936532A1	5/1990	Germany		-				
	<b></b> ∤	GB2 002 667	2/28/79	Great Br	itain					ļ
54		EP 0320 397	6/14/89	Europe			-			<del> </del> _
12		JP11-226734	8/24/99	Japan			2			<u> </u>
		JP11-267839	10/5/99	Japan			7			<u> </u>
W		JP60180675A	9/14/85	Japan			2_			
CX		JP56-9062	1/29/56	Japan						
		JP60-108176	6/13/60	Japan			2			
CX		WO95/3440 <b>O</b>	12/21/95	PCT						
OTE	IER [	OCUMENTS	(Includi	ng Autho	or, Title,	Date,	Pa	ges,	Etc	:.)
1					•					
									•	
							_			
EXAMI	NER	C. SH.	AW	DATE CONS	IDERED $l/3$	( /200	6			
EXAMIN	NER:	Initial if o	itation i	s in confe	ormance with	MPEP 60	19 1	)raw '	line	
through	gh cit	tation if not	: in confo	rmance and	d not conside.	red. 1	incli	ide c	opy o	f
this	form v	with next con	municatio	n to appli	icant.					

I hereby certify that this correspondence is, on the date shown below, being deposited with the U.S. Postal Service as first class mail in an envelope statessed to:

Commissioner for Patents, P. O. Box 1450, Alexangula, MA 22313-1450 George R. Corrigan



KOFFICE		. <b>'</b>		31.4				SI	neet 3	ا در of ک
Sorm PI	0-1449	U.S. Departme And Trademark	ent of Commerce COffice	ce Patent	ATTY.DOCKET NO. ITW 14417			SERI	AL NO. /7286	
TNE	ADM A	SUPPLEMI TION DISCL		<b>፣</b> ጥ እ ጥ ፕ ← እ ነ	APPLICANT Huismann	et al	•			
·	JRMA	TION DISCI		·	December	5, 20	03	GROU 37	12 42 17	25
			U.S.	PATENT	DOCUMENTS				_	-
EXAM. INIT.		PATENT NUMBER	DATE	NAME		CLA		UB- LASS	FILI	_
CK,		1,563,612	12/1925	Cutler et	al.		-	)		
<u> </u>		1,927,896	9/1933	Karl Mill	ler		-1			
CH_		2,079,956	5/1937	Burgett		,	-1	<u> </u>		
CF-		2,886,696	5/12/59	Tuthill e	et al.			-		
CK		3,053,975	9/1962	Nelson et	al.	-	=			
CL		3,139,506	6/64	Wolff et	al.			>		
0		3,249,276	5/1966	VanBerger	n et al.	_	<del>-  </del>	_	1	
CA		3,339,057	8/1967	Bernard e	et al.	-			1	
Cx-		3,344,305	9/1967	Ogden				_		
04		3,581,053	5/1971	Manz				_		
CY		3,586,221	6/1971	Rosen		<b>—</b>	==			
<b>Ø</b> ₹		3,630,425	12/1971	Wilkens		-	_		1	
			FOREIC	N PATEN	T DOCUMENTS	3				
EXAM	REF	DOCUMENT	DATE	COUNTRY		CLASS	SUB	- 1	TRANSLAT	ON
INIT		NUMBER					CLA	ss 📑	YES	NO
ОТЕ	IER	DOCUMENTS	(Includi	ng Autho	or, Title,	Date	Da	<b>~</b> ~~	Et o	
		T T	TINCIAAI	ing Autili	or, incre,	Date,	ra	ges,	ELC	<u>• )                                     </u>
					·					
•										·
•			······	<u></u>						
EXAMI	NER	C, SHA	ل ل	DATE CONS	IDERED 1/3	1/20	26			

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8a)

I hereby certify that this correspondence is, on the date shown below, being deposited with the U.S. Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents, P. O. Box 1450, Algorithm, VA 22313-1450

EXAMINER: Initial if citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of

this form with next communication to applicant.

George R. Corrigan

paper # 0527B 4/4

					Sheet Yof					- 7 f レ
& PT	0-1449	U.S. Departme	ent of Commerc	e Patent	ATTY DOCKET NO.			SERIA		<del>-/-</del>
		And Trademark			ITW 14417	.70		10/	72862	29
					APPLICANT					
		SUPPLEM			Huismann (	et al.				
INFO	)RMA'	TION DISCL	OSURE CI	TATION	FILING DATE			GROUP	- (3	$\overline{}$
		<del></del>	<del> </del>		December :	5, 200	)3	374	217	23
			U.S.	PATENT	DOCUMENTS					
EXAM.	REF		DATE	NAME	•	CLAS		JB-	FILI	-
INIT.	<b>∔</b>	NUMBER					CI	LASS	DATE	
CX	┼—	3,693,858	9/1972	Araya et			==			
CK	╀	3,731,049	5/1/73	Kiyohara			=		<u> </u>	
		4,125,759	11/4/78	Kiyohara					<u> </u>	
CX	4	4,142,085	2/27/79	Knipstrom	n et al.			<del>&gt;</del> .	<u> </u>	
	-	4,218,906	8/80	Yoshida		_ <	$\Rightarrow$		<u> </u>	
	╄-	4,288,682	9/8/81	Toth	<del> </del>				<u> </u>	
<u> </u>	_	4,553,018	11/85	Kondo et						
CX		5,540,371	7/1996	Gilliland		_		-		
CX-	<u> </u>	5,643,479	7/1997	Lloyd et					<u> </u>	
CX		5,973,291	10/1999	Kramer et al.					<u> </u>	
Co.		6,297,473	10/2/01	Hiraoka et al						
<u> (¾</u>	<u> </u>	6,313,437	11/6/01	Soting et al.					1	
			FOREIG	N PATEN	r DOCUMENTS	<u>.                                    </u>		_		
	REF	DOCUMENT	DATE	COUNTRY		CLASS	SUB-		ANSLATIC	NC
INIT		NUMBER					CLAS	S Y	ES	NO
L										
					·-·					
ОТН	ER I	DOCUMENTS	(Includi	na Autho	or, Title,	Date	Dag	700	Ftc	1
011		I	(Includi	ing Autin		Date,	ray	,65,	ECC.	· /
						*				
.=					•					
						<del> </del>	· · · · · ·			
									•	
EXAMI	NER	C, SHK	w	DATE CONS	IDERED //3/	1/200	6			
EXAMI	VER.	Initial if	citation i	s in conf	ormance with			rau l	ine	
through	gh ci	tation if no	t in confo	rmance and	d not conside:	red. I	nclu	de co	py of	
this	form	with next co	mmunicatio	n to appl:	icant.					

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8m)

I hereby certify that this correspondence is,

on the date shown below, being deposited with the U.S. Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandra, VA 22313-1

VA 22313-1450

Seorge R. Corrigan

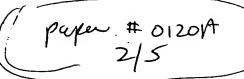
·3/			f	Japer	1/5	201.					
m van			•	٧	1/5						(
刮	•		•		-7				She	et 1	ot 1/
PAR DI	0-14	49	U.S. Departme	nt of Commerc	e Patent	ATTY DOCKET NO.				L NO.	
			And Trademark			ITW 14417.	70			7286	29
	•					APPLICANT .					
			SUPPLEME	INTAL		Huismann e	t al.	ı			
INF	ORN	1ATI	ON DISCL	OSURE CI	TATION	FILING DATE			GROU		
						December 5	, 200	)3	(	725	
			·	U.S.	PATENT	DOCUMENTS					
EXAM.	T <sub>R</sub>	EF	PATENT	DATE	NAME		CLAS	s s	UB-	FIL	ING
INIT.			NUMBER						LASS	DATE	3
(F	Т		4,159,410	6/79	Cooper			-	_		
CX			5,412,175	5/95	Shimogama	a		$-\Gamma$	_		
-		•		FOREIG	N PATEN	r DOCUMENTS					
EXAM	RE	F D	OCUMENT	DATE	COUNTRY		CLASS	SUB		ranslat	ION
INIT		N	UMBER					CLA	SS Y	ES	ио .
CX.		ום	E19738785	4/99	Germany		•——	ŀ			
ब्र		D	E3200421	7/83	Germany		ے				
d		D	E3827508	2/90 .	Germany						
द		G	B2120692	12/83	Great B	ritain					
1		E	P0313 232	4/89	Europe				-		
-124								•			
OTI	HEF	DC	CUMENTS	(Includi	ng Autho	or, Title, I	ate,	Pa	ges,	Etc	.)
^.			Energy ba	ased syner	gic pulse	d MIG control	svste	m, c	erd	Huism	ann,
(7	,					(2002) Pine Mc					
	7					ck out for inc	-		ha h		e e
			rate in o	es in usi. Tas metal	arc weldi	ng. Gerd Huis	mann.	7 <sup>th</sup>	.ne b Inte	mati	onal
O						Society (2001)		•			01142
1	İ										
											• • ]
							*****			·	
			<u> </u>	I			<del></del>				
EXAMI	NEF	$^{\circ}$	SHA	$\omega$	DATE CONS	SIDERED $1/31$	200	6			
DVANT			Initial is		ia in ac-	formance with	MDED	600	D~-	1 :	_
						formance with nd not conside				CODA	
	_		ith next co								

I hereby certify that this correspondence is, on the date shown below, being deposited with the U.S. Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents, P. O. Box 1450, Alexandria VA 22313-1

∉eorge R. Corrigan

JAN 2 0 2004



2 0 2004	3/			(( '	2	15	)			-	
700									Shee	2 الا تا	
Porm	Ø-14	49	U.S. Departmen		e Patent	ATTY. DOCKET NO.		. 1	SERIAL	NO.	
TRAN			And Trademark	Office		ITW 14417	. 70		10/	7286	29:
			SUPPLEME	NTAT.		APPLICANT Huismann	a+ al				
INF	ORM	ÆT	ION DISCLO		TATION	FILING DATE	et ar.		GROUP		
						December !	5, 200	)3		725	
				U.S.	PATENT	DOCUMENTS					
EXAM.	R	EF	PATENT	DATE	NAME		CLAS	s su		FIL	
INIT.	+		NUMBER					CT	ASS	DATE	3.
	╫		<del>                                     </del>								
			<u> </u>	FOREIG	N PATEN	r DOCUMENTS					
EXAM	RE	F	DOCUMENT	DATE	COUNTRY		CLASS	SUB-	TR	ANSLAT	ION
INIT		1	NUMBER		<u> </u>			CLAS	S YE	ES	NO
	_				·						
					<u>.</u>						
OT	HER	D	OCUMENTS (	Includi	ng Autho	or, Title,	Date,	Pag	es,	Etc	.)
	,		Energy h	pased co	ntrol s	ystem for t	he GM	A we	ldi	ng	
0	$\geq$		process	, Huism	ann, G.	· .					
1	_		Introduc	rtion of	a new i	MIG process	Adva	ntag	res a	and	
			1			Huismann			,		
	·		Gas Meta	al Arc W	lelding	for the 21s	t Cent	urv.	De	c. 6	5-8.
CA					_	Hotel, Orla					
	,		Control	led Mig	Short C	ircuiting I	Proces	e Fo	r		
19				_		s, Gerd Hui			, <u> </u>		
				•				•			
101	,					cro-Arc and idenov, Ped					
4	$\dashv$		Bulgaria	<del>-</del>		1968, No					-
				: <u>-</u>				~~			-
<u> </u>				·			, ,				
EXAMI	INEF	2	C. SHAR	<b>ル</b> ・し	DATE CONS	SIDERED //	31/20	205		·	
EXAMI	NEF	₹.	Initial if	citation	is in con	formance with	1 MPEP	609.	Draw	lin	e
throu	ıgh	ci	tation if no	t in conf	ormancė a	nd not consid			ude		
this	for	m v	with next co	mmunicati	on to app	licant.					

I hereby certify that this correspondence is, on the date shown below, being deposited with the U.S. Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents, P. O. Box 1450, Alexandria VA 22313-1450

george R. Corrigan

SERIAL NO. U.S. Department of Commerce Patent ATTY. DOCKET NO. And Trademark Office ITW 14417.70 10/728629 APPLICANT SUPPLEMENTAL Huismann et al. INFORMATION DISCLOSURE CITATION GROUP FILING DATE December 5, 2003 PATENT DOCUMENTS U.S. EXAM. REF PATENT DATE NAME CLASS SUB-FILING NUMBER CLASS DATE INIT. FOREIGN PATENT DOCUMENTS TRANSLATION SUB-REF DOCUMENT DATE COUNTRY CLASS EXAM NUMBER CLASS INIT YES NO OTHER DOCUMENTS (Including Author, Title, Date, Pages, Etc.) Mechanical Control of The Transfer Of Electrode Naidenov, People's Republic of Metal, A.M. Bulgaria, Avt. Svarka, 1969, No. 12, pp. 31-33. An Electrode Vibrator For Vibro-Arc Hardfacing, A.A. Spiridonov, Svar. Proiz., 1966, No. 5, pp. 40-41. Controlling The Arc Welding Process By Programming Electrode Wire Feed Rate, B.E. Paton, et al., Avt. Svarka, 1977, No. 1, pp. 1-5 and p. 15. Calculation of the Speed of Movement of the Electrode Tip During Welding With Mechanical Control of Metal Transfer, V.P. Dmitrienko, Avt. Svarka, 1979, No. 2 pp. 7-9. EXAMINER DATE CONSIDERED

EXAMINER: Initial if citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

> CERTIFICATE OF MAILING/TRANSPORTATION (ST CFR 1.80) I hereby certify that this correspondence is, on the date shown below, being deposited with the U.S. Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria,

Beorge R. Corrigan

paper # 0120A

SERIAL NO. U.S. Department of Commerce Patent ATTY DOCKET NO. And Trademark Office 10/728629 ITW 14417.70 APPLICANT SUPPLEMENTAL Huismann et al. INFORMATION DISCLOSURE CITATION FILING DATE GROUP 1725 December 5, 2003 U.S. PATENT DOCUMENTS EXAM. REF PATENT DATE NAME CLASS SUB-FILING INIT. NUMBER CLASS DATE FOREIGN PATENT DOCUMENTS TRANSLATION CLASS SUB-COUNTRY EXAM REF DOCUMENT DATE CLASS INIT NUMBER OTHER DOCUMENTS (Including Author, Title, Date, Pages, Etc.) Electromagnetic Mechanisms For the Pulsed Feed of Wire, N.M. Voropai, O.N. Savel'ev and S.S. Welding Svarka, 1980, No. 1, pp. 46-49. Semergeev, Avt. Power Calculation of the Process of Separation of an Electrode Metal Droplet Under the Effect of an External Electromagnetic Field Pulse, N.M. Tarason, Avi. Svarka, 1984, No. 6, pp 21-25. Development of a Precision Wire Feeder For Small-Diameter Wire, Eldon D. Brandon, Abstract. C. SHAW EXAMINER DATE CONSIDERED 2006

EXAMINER: Initial if citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

CENTIFICATE OF MAILIEU/TEASURESION (S7 CFR 1.8a) I hereby certify that this correspondence is, on the date shown below, being deposited with the U.S. Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria,

george R. Corrigan

DN+G:\WP51\DOCS\ITW\14417.70\1449IDS3.wpd Wednesday, January 14, 2004 12:27PM

Dr Tal				2/2	•				55
<b>3</b>				·				Sheet	A of y.
Post P	0-1449		nt of Commerc	e Patent	ATTY. DOCKET NO.			BRIAL NO	0.
		And Trademark	Office		ITW 14417.	70	1_1	.0/72	8629
		SUPPLEM	ያእየጥ እ <b>የ</b> .		APPLICANT				
TNE	ימשמח	TION DISCL		יא חדר איז	Huismann e	et al.			
TIME	ORMA	IION DISCL	OSURE CI	IAIION	December 5	200		ROUP 7	25
						, 200	3		
<b></b>				PATENT	DOCUMENTS				
EXAM.	REF		DATE	NAME		CLAS		1 -	ILING
INIT.		NUMBER		<u> </u>		<del></del>	CLA	SS D	ATE
1	+	4,717,807	1-5-88	Parks et			#	<del></del>	
		4,835,360	5-30-89	Parks et					
9		4,866,247	9-12-89	Parks et					
<u> </u>		4,897,523	1-30-90	Parks et			#	_	•
5	<del> </del>	4,954,691	9-4-90	Parks et	al.	<	Τ		
		4,972,064	11-20-90	Stava		=			
<u>G</u>	<del>                                     </del>	5,001,326	3-19-91	Stava			_		
	<u>.                                    </u>	5,003,154	3-26-91	Parks et	al.		<u></u>		
			FOREIG	N PATEN	T DOCUMENTS				
EXAM	REF	DOCUMENT	DATE	COUNTRY		CLASS	SUB-	TRANS	LATION
INIT		NUMBER	_				CLASS	YES	NO
								T	
								T	
			/				_		
OTI	HER I	DOCUMENTS	(Includi	ng Autho	or, Title, I	Date,	Page	s, E	tc.)
	1	*		•					
	1		<del></del>			···			
		<del></del>	· · ·						
					•				
							··		
	_								
i		· · · · ·							
	L_		· · · · · · · · · · · · · · · · · · ·		_				
EXAMI	NER	a Cira	, 1	DATE CONS	SIDERED //~	/	_		
		C, SHA			1/3	1/22	o6	•	
DV3-4-	1775	T-1-1-3 25	-1			/		_	,
EXAMI		tation if no	citation.	15 in con	formance with nd not conside	MPEP 6	09. D Inclu		
this	form	with next co	ommunicati	on to app	licant.	Jiçu.	IIIC I U	سد دن	PA OT

I hereby certify that this correspondence is, on the date shown below, being deposited with the U.S. Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents, P. O. Box 1450, Mexandria, VA 22313-1450

	. 4		a a series para participa de la compansión								
TPA				Pa	per #	×01203					
	7		(	V	1	10		/			
2 0 2004 <sub>1</sub>	(C)					71				Sheet 1	of 1.
2014	Spru Pi	0-1449	U.S. Departme	ent of Commerc	e Patent	ITW 14417				RIAL NO. 0/728	
-, 0	9		CIPDI EM	CINTON T		APPLICANT				,, , , , ,	<del></del> -
6MABY O	TNF	ORMA	SUPPLEM TION DISCL		TATION	Huismann	et a.	<u> </u>	GRO	OUP	
·						December	5, 20	03		1725	<u> </u>
ĺ				U.S.	PATENT	DOCUMENTS					
	EXAM.	REF	PATENT NUMBER	DATE	NAME		CL	ASS	SUB- CLAS		ING E
	(X		5,148,001	<del></del>	Stava		^		·		
	_C/_		5,742,029		Stava et	al.					
'	CX		5,961,863		Stava			$\leq$	_		
		1_	6,051,810		Stava						
		_	6,160,241	12-12-00				$\equiv$	<del></del>	<del></del>	
-		<u> </u>	6,326,591	12-4-01		on et al.				L	
				FOREIG	N PATEN	T DOCUMENTS		·			
	EXAM	REF	DOCUMENT	DATE	COUNTRY		CLASS	-	JB-	TRANSLA	
	TINI		NUMBER					101	LASS	YES .	NO
				_	+		<del> </del>	+		<b></b>	+
		<del></del>	<u> </u>		-		<del>                                     </del>	+			+
			<u> </u>	<del>-</del>	<del>                                     </del>	· · · · · · · · · · · · · · · · · · ·	<del> </del>	+			+
	OTT	HER :	DOCUMENTS	(Includi	ng Auth	or, Title,	Date	, F	ages	Et	 c.)
	Ct	$\times$	Invision	The Power  * 456P And February 2	l Phoenix	456 CC/CV (2	30/460	) An	.d. 575	Volt	
	Co	A	Miller®	The Power	of Blue	ter-Cooled G	uns, N	Marc	h 200	)1	
					•						
					· · · · · · · · · · · · · · · · · · ·						:
	<b></b>										

EXAMINER: Initial if citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

DATE CONSIDERED

I hereby certify that this correspondence is, on the date shown below, being deposited with the U.S. Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents, P. O. Box 1450, Alexandria, 10 22313-1450

San 15,2000

**EXAMINER** 

George R. Corrigan